# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 10/01/2018 11:51 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 09/25/2018 11:17 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80291 | Expiration Date: | 02/29/2020 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123659 | -2 | 1.13 | 123724 | 1.15 |
| Blue | F | SSC | 125000 | 123492 | -2 | 1.53 | 124222 | 1.54 |
| Blue | E | FITC | 16596 | 16101 | -3 | 2.85 | 347 | 21.36 |
| Blue | D | PE | 29392 | 28670 | -3 | 1.88 | 625 | 15.83 |
| Blue | B | PerCP-Cy5-5 | 38531 | 38213 | -1 | 4.12 | 1164 | 21.84 |
| Blue | A | PE-Cy7 | 26351 | 26606 | 0 | 7.25 | 651 | 43.54 |
| Red | C | APC | 43035 | 42276 | -2 | 2.77 | 1589 | 13.36 |
| Red | A | APC-Cy7 | 25611 | 25396 | -1 | 2.84 | 878 | 13.12 |
| Violet | B | V450 | 8803 | 8601 | -3 | 3.77 | 472 | 13.72 |
| Violet | A | V500 | 32560 | 32393 | -1 | 3.42 | 753 | 10.44 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 20321 | 2.99 | 603 | 6 | N/A | N/A | Pass |
| Blue | F | SSC | 56202 | 1.03 | 565 | 10 | N/A | N/A | Pass |
| Blue | E | FITC | 62 | 68.71 | 553 | 3 | 0.0172 | 157 | Pass |
| Blue | D | PE | 130 | 55.17 | 553 | 4 | 0.1491 | 324 | Pass |
| Blue | B | PerCP-Cy5-5 | 224 | 52.09 | 656 | 5 | 0.0080 | 56 | Pass |
| Blue | A | PE-Cy7 | 124 | 106.67 | 714 | 9 | 0.0096 | 18 | Pass |
| Red | C | APC | 374 | 28.40 | 605 | 8 | 0.0200 | 153 | Pass |
| Red | A | APC-Cy7 | 216 | 29.15 | 578 | 7 | 0.0046 | 1158 | Pass |
| Violet | B | V450 | 75 | 64.99 | 481 | 6 | 0.0616 | 3237 | Pass |
| Violet | A | V500 | 113 | 34.00 | 492 | 8 | 0.0223 | 777 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.57 | 47.98 - 71.98 | N/A | N/A | -32.58 | -32.17 | 1.04 |
| Blue | 20.35 | 16.27 - 24.41 | 1.28 | 0.99 - 1.49 | 0.00 | 0.00 | 1.52 |
| Red | 15.54 | 13.60 - 20.40 | N/A | N/A | 29.53 | 29.86 | 1.21 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.93

## Threshold

Threshold (FSC): 9524

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments